

FIG. 1A

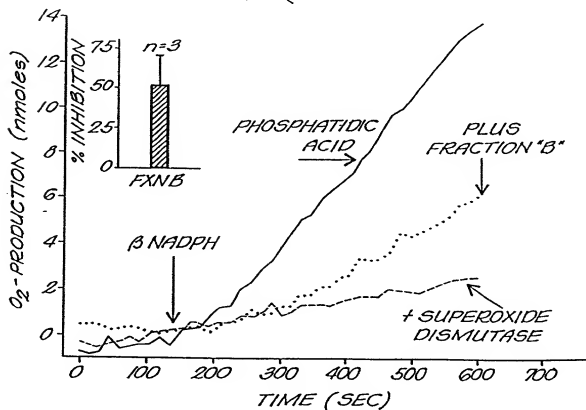
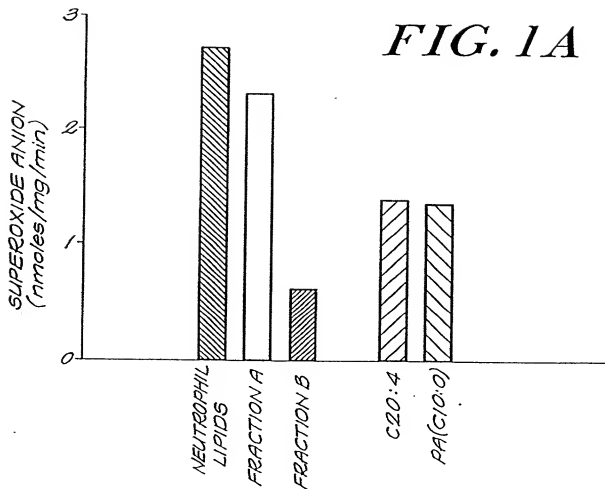
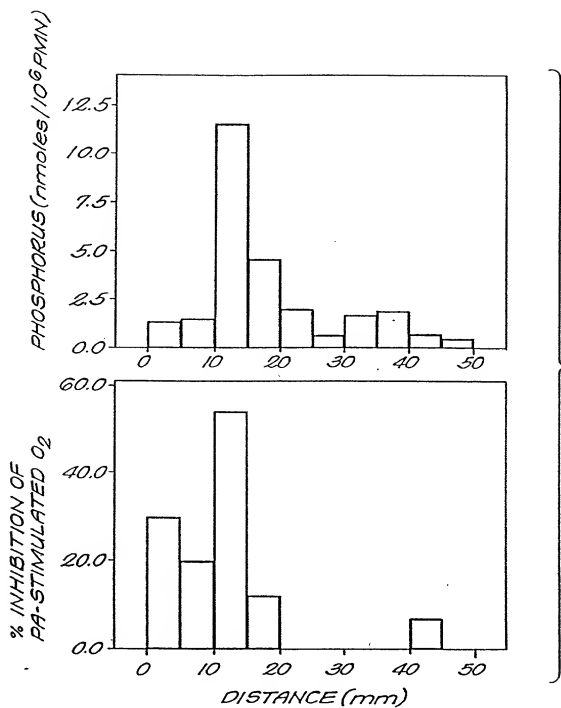


FIG. 1B

*FIG. 1C*

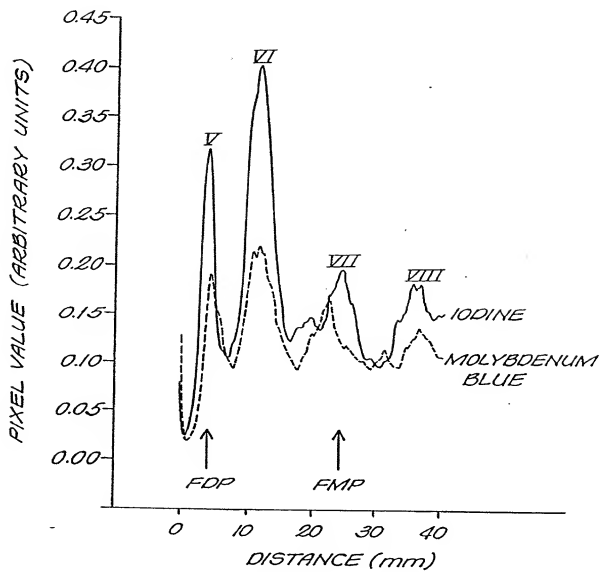


FIG. 1D

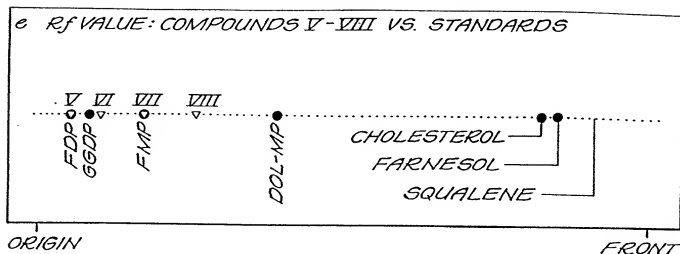


FIG. 1E

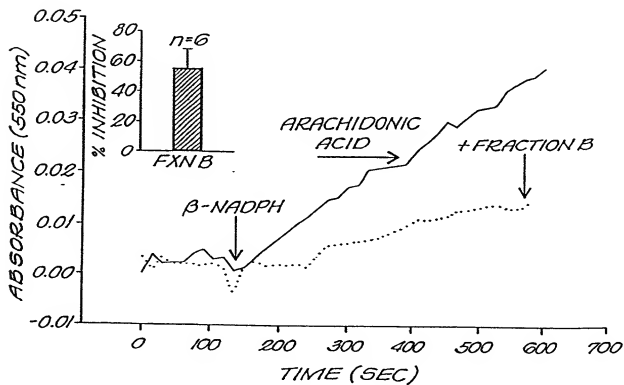


FIG. 1F

<u>COMPOUND</u> (#)	<u>INORGANIC PHOSPHORUS</u> (nmols)	<u>DENSITY ON TLC</u> (ARBITRARY UNITS)	<u>PHOSPHORUS / DENSITY</u>
VI	8.77	1.75	5.01
VII	4.10	1.52	2.70
VIII	7.34	2.80	2.62

INORGANIC PHOSPHORUS / SCANNING DENSITOMETRY: COMPOUND VI / COMPOUND VII = 1.86  
COMPOUND VI / COMPOUND VIII = 1.91

THESE RATIOS INDICATE THAT: a) COMPOUND VI IS A DIPHOSPHATE, AND  
b) COMPOUND VII & VIII ARE MONOPHOSPHATES.

*FIG. 1G*

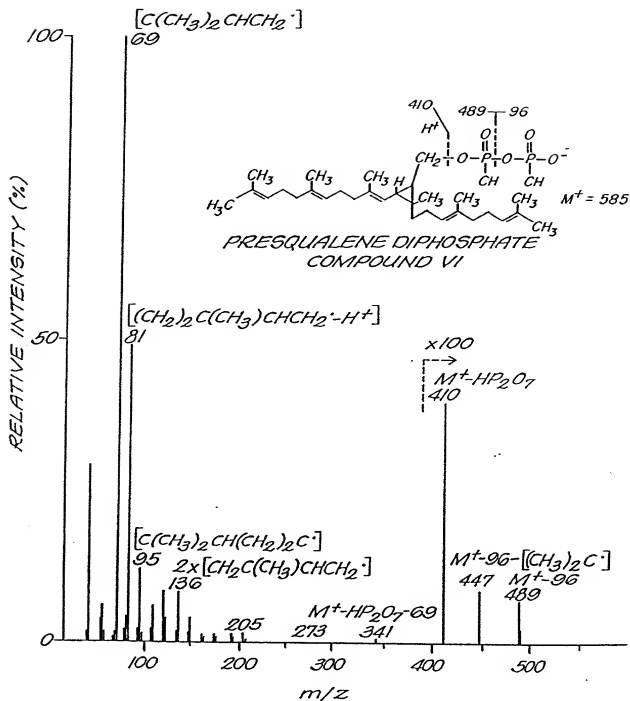


FIG. 2A

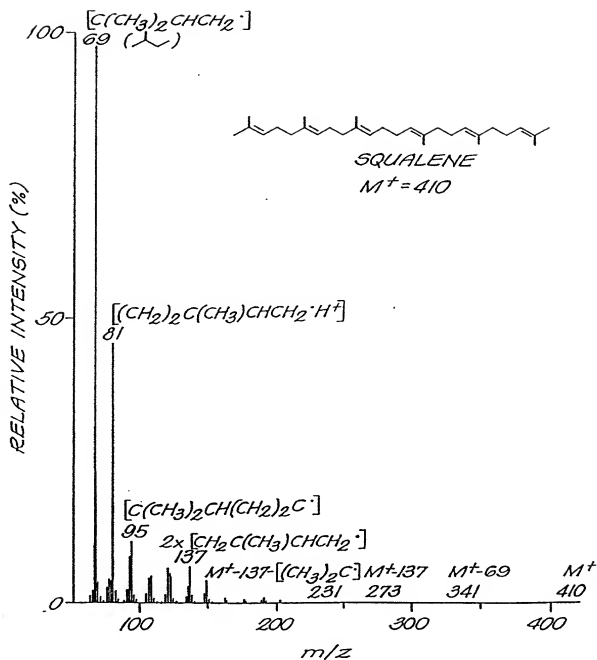
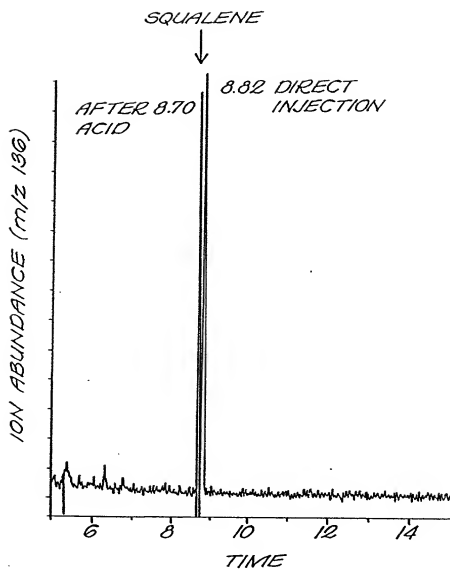


FIG. 2B

*FIG. 2C*



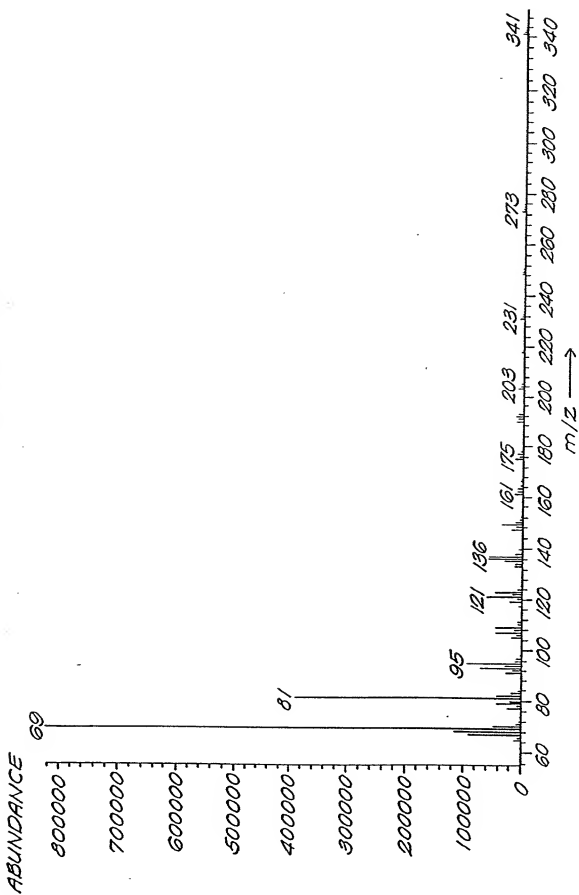


FIG. 2D

<u>PMN LIPID</u>	<u>TLC</u> : R <sub>F</sub> /DOL-P R <sub>F</sub>	<u>GC/MS</u> : DIRECT INJECTION	OTMS DERIVATIVE	ACID HYDROLYSIS TO SQUALENE	<u>PHOSPHORUS</u> : nmoles/10 <sup>7</sup> PMN	<u>PROPOSED STRUCTURE</u> :
COMPOUND V	0.14 (±0.02)	4.39 MIN: 235, 327, 261, 232, 220, 205, 189, 177, 91, 69	NP	-	0.11 (±0.04)	FARNESYL- DIPHOSPHATE *
COMPOUND VI	0.25 (±0.02)	8.81 MIN: 489, 447, 410, 341, 273, 205, 191, 136, 95, 81, 69	9.28 MIN: 486, 441, 405, 361	+	1.67 (±0.32)	PRESQUALENE- DIPHOSPHATE
COMPOUND VII	0.44 (±0.03)	NP	5.72 MIN: 356, 341, 313, 281, 207, 191, 145, 117, 97, 73, 69	-	0.35 (±0.13)	FARNESYL- MONOPHOSPHATE *
COMPOUND VIII	0.66 (±0.04)	8.81 MIN: 481, 403, 342, 268, 177, 136, 95, 81, 69	9.15 MIN: 486, 441, 403, 361	-	0.47 (±0.12)	PRESQUALENE- MONOPHOSPHATE

FIG. 2E

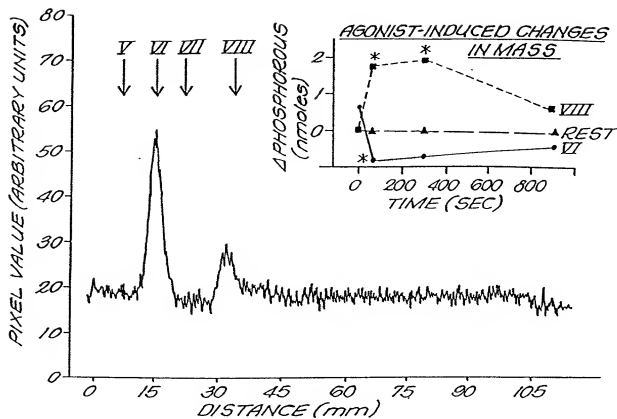


FIG. 3A

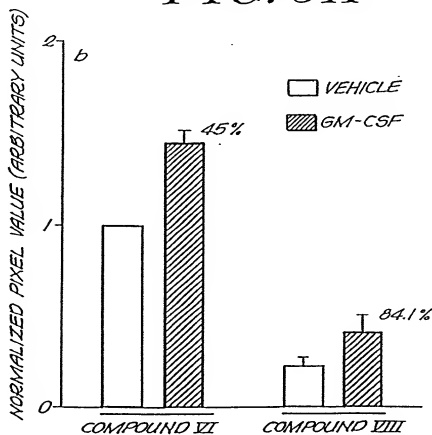
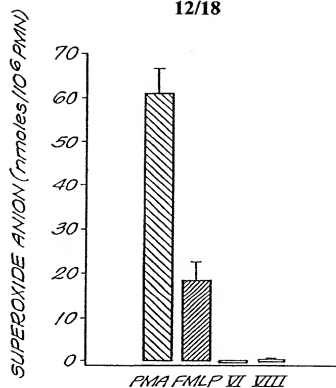
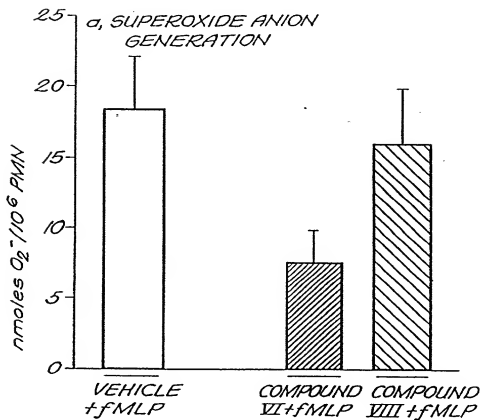


FIG. 3B

*FIG. 3C**FIG. 4A*

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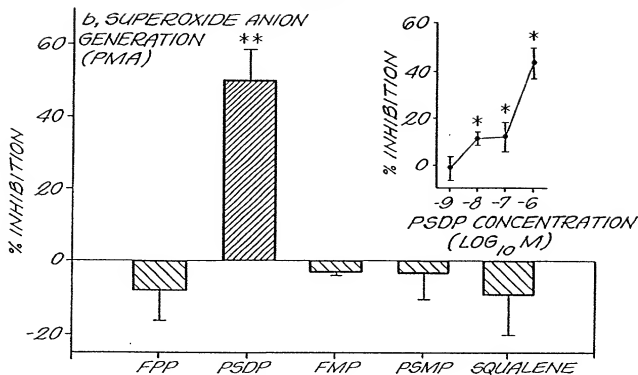


FIG. 4B

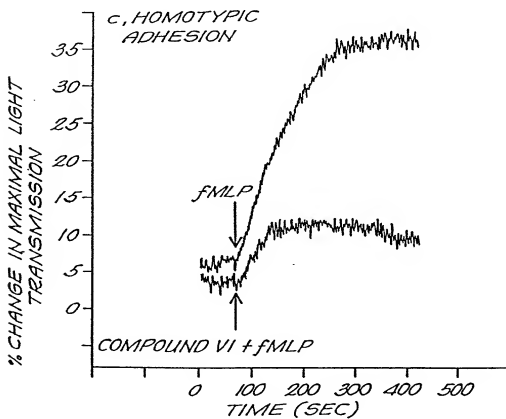


FIG. 4C

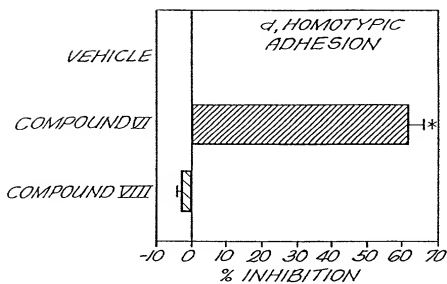


FIG. 4D

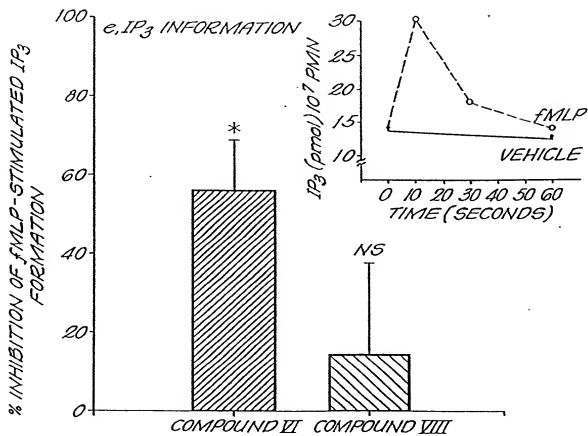
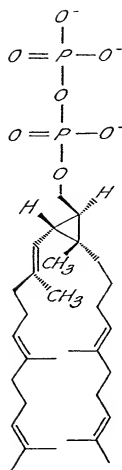


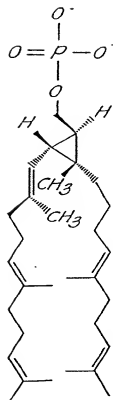
FIG. 4E



PSDP (COMPOUND VI)

- INHIBITION OF  $O_2^-$  GENERATION
- INHIBITION OF HOMOTYPIC ADHESION
- INHIBITION OF  $IP_3$  INFORMATION

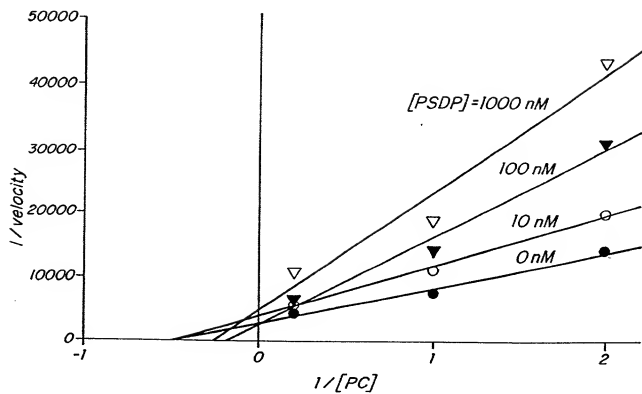
PMN RECEPTOR  
ACTIVATION



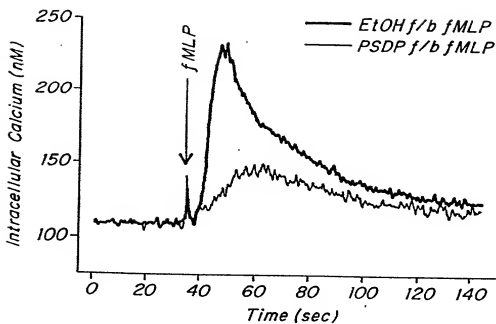
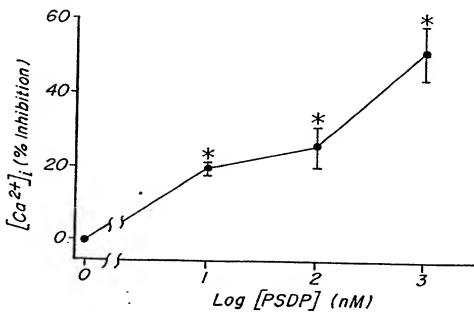
PSMP (COMPOUND VIII)

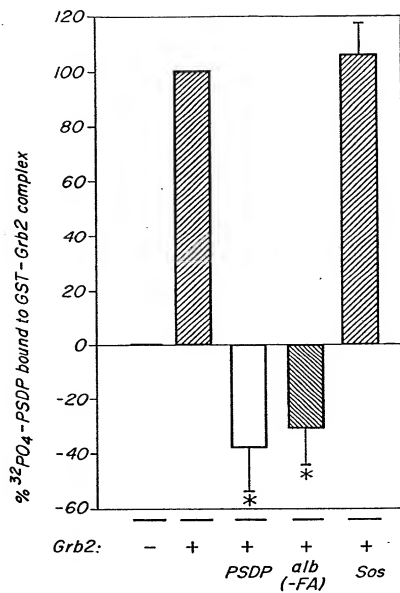
INACTIVE

FIG. 4F

**FIG. 5**



**FIG. 6****FIG. 7**

**FIG. 8**